

3M Innovative Properties Company
Our Ref.: H2748 PCT

It is Claimed:

CLAIMS

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1. A cationic polymerizable adhesive composition comprising:

(a) a cationic polymerizable monomer selected from an epoxy monomer, a
5 vinyl ether monomer, or a mixture thereof; being an <->

(b) a cationic polymerization catalyst; and

(c) a solvent for the cationic polymerization catalyst,

wherein the solvent is a mixture of a good solvent and a poor solvent for the cationic polymerization catalyst.

10 2. The cationic polymerizable adhesive composition as claimed in claim 1, wherein a weight ratio of the good solvent to the poor solvent is within a range from 5:95 to 60:40.

~~3. The cationic polymerizable adhesive composition as claimed in claim 1 or 2,~~

15 ~~wherein the cationic polymerization catalyst has~~ [an absorption peak in a visible light range of from 360 to 830 nm]

~~4. The cationic polymerizable adhesive composition as claimed in claim 2, wherein /~~
~~the cationic polymerization catalyst is~~ (iron-arene complex, having [-])

20 3. 8. An anisotropically electroconductive adhesive composition comprising the cationic polymerizable adhesive composition claimed in any one of claims 1 to ²/~~4~~ and electroconductive particles.

25 4. 6. An adhesive film formed by applying the cationic polymerizable adhesive composition claimed in claim 1 onto a separator and drying the coating film.

30 5. 7. An anisotropically electroconductive adhesive film formed by applying the anisotropically electroconductive adhesive composition claimed in claim ³/~~5~~ onto a separator and drying the coating film.

~~It is Claimed:~~

An anisotropically electroconductive adhesive composition comprising

6. 1. A cationic polymerizable adhesive composition comprising:

(a) a cationic polymerizable monomer selected from an epoxy monomer, a vinyl ether monomer, or a mixture thereof;

(b) a cationic polymerization catalyst; and

(c) a solvent for the cationic polymerization catalyst,

wherein the solvent is a mixture of a good solvent and a poor solvent for the cationic polymerization catalyst; and electroconductive particles.

~~2. The cationic polymerizable adhesive composition as claimed in claim 1, wherein a~~

~~weight ratio of the good solvent to the poor solvent is within a range from 5:95 to 60:40.~~

~~3. The cationic polymerizable adhesive composition as claimed in claim 1 or 2,~~

~~wherein the cationic polymerization catalyst has an absorption peak in a visible light range of from 360 to 830 nm.~~

4. The cationic polymerizable adhesive composition as claimed in claim 3, wherein the cationic polymerization catalyst is iron-arene complex.

5. An anisotropically electroconductive adhesive composition comprising the cationic polymerizable adhesive composition claimed in any one of claims 1 to 4 and electroconductive particles.

6. An adhesive film formed by applying the cationic polymerizable adhesive composition claimed in claim 1 onto a separator and drying the coating film.

7. An anisotropically electroconductive adhesive film formed by applying the anisotropically electroconductive adhesive composition claimed in claim 5 onto a

~~separator and drying the coating film.~~